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**Resin compsn. for optical-stereo product - comprises polyepoxy (meth)acrylate oligomer, polyurethane poly(meth)acrylate oligomer, polyethylene contg. monomer and photoinitiators**  
**Patent Assignee: JAPAN SYNTHETIC RUBBER CO LTD; NIPPON TOKUSHU COATING KK**

**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 5279436	A	19931026	JP 92129265	A	19920330	199347	B
JP 3176430	B2	20010618	JP 92129265	A	19920330	200136	

**Priority Applications (Number Kind Date): JP 92129265 A ( 19920330)**

**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 5279436	A		8	C08F-299/02	
JP 3176430	B2		8	C08F-299/06	Previous Publ. patent JP 5279436

**Abstract:**

JP 5279436 A

Resin compsn. contains (A) epoxy (meth)acrylate oligomer, (B) urethane (meth)acrylate oligomer, (C) ethylene-contg. monomer, and (D) photo-radical initiators.

**USE/ADVANTAGE** - For prodn. of optical stereo prod.. Obtd. prod. has mechanical toughness and is free from deformation.

In an example urethane (meth)acrylate oligomer (A) was prepd. by stirring isobornyl acrylate (200 g), 2,4-trylene di-isocyanate (565g), dibutyl tin dilaurate (2g) and 2,6-di-t-butyl-4-me thyl phenol (3g) with hydroxy ethyl acrylate (376g) at 25 deg.C or lower for 1 hr., and with polyoxy tetramethylene diol (1064g) at 60 deg.C for 5 hrs. to obtain isobornyl acrylate soln. of polyoxy tetramethylene diol urethane acrylate. The resin compsn. was obtd. by stirring (A) (40 pts.), bisphenol A diglycidyl ether diacrylate (10 pts.), N-vinyl pyrrolidone (20 pts.) and isobornyl acrylate (24 pts.), and 1-hydroxy cyclohexyl phenyl ketone (6 pts.) at 50 deg.C for 2 hrs. to form transparent resin compsn. with 350 cP/25 deg.C.

Dwg.0/2

Derwent World Patents Index

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**Basic Patent (Number,Kind,Date):** JP 7127160 A2 950516

**PATENT FAMILY:**

**Japan (JP)**

Patent (Number,Kind,Date): JP 7127160 A2 950516  
STRUCTURE OF OPENING PART ON WALL PANEL (English)  
Patent Assignee: SEKISUI CHEMICAL CO LTD  
Author (Inventor): MAEKAWA TSUTOMU  
Priority (Number,Kind,Date): JP 93279436 A 931109  
Applic (Number,Kind,Date): JP 93279436 A 931109  
IPC: \* E04B-002/00  
Language of Document: Japanese

INPADOC/Family and Legal Status

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**Basic Patent (Number,Kind,Date):** JP 5279436 A2 19931026

**PATENT FAMILY:**

**Japan (JP)**

Patent (Number,Kind,Date): JP 5279436 A2 19931026  
RESIN COMPOSITION FOR FORMING OPTICAL STERIC MATERIAL (English)  
Patent Assignee: JAPAN SYNTHETIC RUBBER CO LTD; NIPPON TOKUSHU KOOTEINGU  
KK  
Author (Inventor): IWANAGA SHINICHIRO; OKAWA MASAYOSHI; SATO YOSHIHIRO;  
IGARASHI KATSUTOSHI  
Priority (Number,Kind,Date): JP 92129265 A 19920330  
Applic (Number,Kind,Date): JP 92129265 A 19920330  
IPC: \* C08F-299/02; B29C-067/00; B29K-105-24; B29K-105-32  
CA Abstract No: ; 121(02)010938T  
Derwent WPI Acc No: ; C 93-374632  
JAPIO Reference No: ; 180068C000004  
Language of Document: Japanese  
Patent (Number,Kind,Date): JP 3176430 B2 20010618  
Priority (Number,Kind,Date): JP 92129265 A 19920330  
Applic (Number,Kind,Date): JP 92129265 A 19920330  
IPC: \* C08F-299/06; B29C-067/00; B29K-105-24  
CA Abstract No: \* 121(02)010938T  
Derwent WPI Acc No: \* C 93-374632  
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**Basic Patent (Number,Kind,Date):** ES 229546 U 770816

**PATENT FAMILY:**

**Austria (AT)**

Patent (Number,Kind,Date): AT 7704379 A 790715

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U. DGL. (German)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): AT 774379 A 770621

National Class: \* AT 63D ,001/10

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Language of Document: German

Patent (Number,Kind,Date): AT 355438 B 800310

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U. DGL. (German)

Patent Assignee: LELEU & CIE ETS (FR)

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): AT 774379 A 770621

Applic (Number,Kind,Date): AT 774379 A 770621

National Class: \* AT 63D ,001/10

IPC: \* B60B-001/14

Language of Document: German

**Austria (AT) - Legal Status**

Number	Type	Date	Code	Text
AT 774379 A		760702	AT AAA	PRIORITY OF THE APPLICATION (PATENT APPLICATION) (PRIORITAET DER ANMELDUNG (PATENTANMELDUNG)) FR 7620964 A 760702
AT 774379 A		770621	AT AEA	DATE OF DOMESTIC APPLICATION (DATUM DER INLANDSANMELDUNG) AT 774379 A 770621
AT 774379 A		790715	AT A	PUBLISHED EXAMINED APPLICATION (AUFGEBOT)
AT 774379 A		800310	AT AGA	PUBLISHED AS PATENT NUMBER (PUBLIZIERT ALS PATENTSCHRIFT) AT 355438 B 800310
AT 355438 P		770621	AT AE	APPLIED (PATENT APPLICATION) (ANGEMELDET (PATENTANMELDUNG)) AT 774379 A 770621
AT 355438 P		860415	AT ELJ	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE (ERLOSCHEN DURCH NICHTZ. D. JAHRESGEB.)

**Germany (DE)**

Patent (Number,Kind,Date): DE 2728160 A1 780112

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

IPC: \* B60B-001/04

Language of Document: German

Patent (Number,Kind,Date): DE 2728160 B2 791213

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

IPC: \* B60B-001/14

Language of Document: German

Patent (Number,Kind,Date): DE 2728160 C3 800821

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

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Language of Document: German

Patent (Number,Kind,Date): DE 7719613 U1 771020

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE LYON ETS

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 7719613 U 770620

IPC: \* B60B-001/04

Language of Document: German

### Germany (DE) - Legal Status

Number	Type	Date	Code	Text
DE 2728160	P	760702	DE AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) FR 7620964 A 760702
DE 2728160	P	770620	DE AE	DOMESTIC APPLICATION (PATENT APPLICATION) (INLANDSANMELDUNG (PATENTANMELDUNG)) DE 2728160 A 770620
DE 2728160	P	780112	DE A1	LAYING OPEN FOR PUBLIC INSPECTION (OFFENLEGUNG)
DE 2728160	P	780706	DE OD	REQUEST FOR EXAMINATION (EINGANG VON PRUEFUNGSANTRAGEN)
DE 2728160	P	791213	DE B2	PUBLICATION OF THE EXAMINED APPLICATION AFTER PUBLICATION OF UNEXAMINED APPLICATION (AUSLEGUNG NACH VORHERIGER OFFENLEGUNG)
DE 2728160	P	800821	DE C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION) (PATENTERTEILUNG NACH ZWEI VEROEFFENTLICHUNGSSTUFEN)
DE 2728160	P	830609	DE 8328	CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT (AENDERUNG IN PERSON, NAMEN ODER WOHNORT DES VERTRETERS)

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DE 2728160 P 860612 DE CEASED/NON-PAYMENT OF THE ANNUAL FEE  
8339 (WEGEN NICHTZ. D. JAHRESGEB. ERLOSCHEN)

### Spain (ES)

Patent (Number,Kind,Date): ES 229546 U 770816

RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

IPC: \* B60B-001/04

Language of Document: Spanish

Patent (Number,Kind,Date): ES 229546 Y 780116

RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

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Language of Document: Spanish

Patent (Number,Kind,Date): ES 229546 Y1 771228

RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

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Language of Document: Spanish

### France (FR)

Patent (Number,Kind,Date): FR 2356524 A1 780127

PERFECTIONNEMENTS AUX ROUES DE VEHICULES (French)

Patent Assignee: DELEU ET CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): FR 7620964 A 760702

IPC: \* B60B-001/08; B60B-023/06

Language of Document: French

Patent (Number,Kind,Date): FR 2356524 B1 800208

PERFECTIONNEMENTS AUX ROUES DE VEHICULES (French)

Patent Assignee: DELEU ET CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): FR 7620964 A 760702

IPC: \* B60B-001/08; B60B-023/06

Language of Document: French

### France (FR) - Legal Status

Number	Type	Date	Code	Text
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FR 7620964 AN	780127	FR	AGA	FIRST PUBLICATION OF APPLICATION (DELIVRANCE (PREM. PUB. DEMANDE DE BREVET))
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FR 2356524 A1 780127

FR 7620964 AN 800208 FR AGA SECOND PUBLICATION OF PATENT  
(DELIVRANCE (DEUX. PUB. BREVET))  
FR 2356524 B1 800208

FR 7620964 AN 860523 FR ST LAPSED  
(CONSTATATION DE DECHEANCES)

FR 2356524 PN 760702 FR AE APPLICATION DATE  
(DATE DE LA DEMANDE)  
FR 7620964 A 760702

### Great Britain (GB)

Patent (Number,Kind,Date): GB 1553017 A 790919  
VEHICLES WHEELS (English)  
Patent Assignee: LELEU & CIE ETS  
Priority (Number,Kind,Date): FR 7620964 A 760702  
Applic (Number,Kind,Date): GB 7725343 A 770617  
National Class: \* GB B7C  
IPC: \* B60B-001/14  
Language of Document: English

### Great Britain (GB) - Legal Status

Number	Type	Date	Code	Text
GB 1553017 P		760702	GB AA	PRIORITY (PATENT) FR 7620964 A 760702
GB 1553017 P		770617	GB AE	APPLICATION DATA (APPL. DATA) GB 7725343 A 770617
GB 1553017 P		790919	GB A	PATENT SPECIFICATION
GB 1553017 P		800604	GB CSNS	APPLICATION OF WHICH COMPLETE SPECIFICATION HAVE BEEN ACCEPTED AND PUBLISHED, BUT PATENT IS NOT SEALED (APPL. OF WHICH COMPLETE SPEC. HAVE BEEN ACCEPTED AND PUBLISHED, BUT PATENT IS NOT SEALED)

### Italy (IT)

Patent (Number,Kind,Date): IT 1081151 A 850516  
PERFEZIONAMENTI IN MERITO A RUOTE DI VEICOLI (Italian)  
Patent Assignee: LELEU & CIE ETS (FR)  
Priority (Number,Kind,Date): FR 7620964 A 760702  
Applic (Number,Kind,Date): IT 7725039 A 770624  
IPC: \* B60B  
Language of Document: Italian

### Japan (JP)

Patent (Number,Kind,Date): JP 53007006 A2 780123  
WHEEL (English)  
Patent Assignee: LELEU & CIE ETS

Author (Inventor): PIEERU RURUU

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): JP 7779436 A 770701

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